

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/831,901	09/831,901 08/07/2001		Kanji Takada	P21010	2415	
7055	7590	10/01/2002				
		ERNSTEIN, P.L.O	EXAMINER			
1941 ROLA RESTON, V		RKE PLACE		JOYNES, R	JOYNES, ROBERT M	
				ART UNIT	PAPER NUMBER	
			1615			
				DATE MAILED: 10/01/2002 7		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/831,901	TAKADA, KANJI					
Office Action Summary	Examiner	Art Unit					
	Robert M. Joynes	1615					
Th MAILING DATE of this communication appears on the cov r sh et with the correspondenc address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	<u>_·</u>						
2a) This action is FINAL . 2b) Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application	1.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.	☑ Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to.	•						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority document							
2. Certified copies of the priority document							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). ★ See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)					

Application/Control Number: 09/831,901

Art Unit: 1615

DETAILED ACTION

Receipt is acknowledged of applicants' Preliminary Amendment filed on August 7, 2001 and Information Disclosure Statement filed on October 2, 2001.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-10 and 12-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takayanagi et al. (US 4765983) in combination with Caldwell et al. (US 4767627). Takayanagi teaches an adhesive medical tape containing an active agent in an adhesive layer and a support layer (Col. 1, line 55 – Col. 2, line 12). The drug is contained in a water-soluble polymer layer (Col. 2, line 58 – Col. 3, line 5). The medicament layer can be composed of one or more layers (Col. 3, lines 18-41). The support layer is composed of an intestine soluble polymer such as hydroxypropyl methylcellulose phthalate or poly(methacrylic acid, methylmethacrylate) (Col. 3, line 50

Application/Control Number: 09/831,901

Art Unit: 1615

– Col. 4, line 4). The support layer thickness is from 2 to 20 microns and the medicament layer thickness is from 20 to 300 microns (Col. 10, Claim 4).

Takayanagi does not expressly teach that the film is contained within a capsule.

Caldwell teaches a planar disc comprising at least one erodible polymer and an active agent (Col. 42-62). This planar disk can be made from erodible polymers or non-erodible polymers (Col. 5, line 46 – Col. 6, line 23). The erodible polymers can be hydroxypropyl methylcellulose phthalate or poly(methacrylic acid) (Col. 5, lines 46-68). The drug can be present in an erodible matrix or non-erodible matrix (Col. 6, lines 24-44). One matrix can be attached to the other for administration of the matrix (Col. 6, lines 24-44). The matrix is then compressed by folding or rolling and then inserted into a capsule for delivery (Col. 4, lines 22-32). The active agent in not critical and can be any active in it stable form (Col. 6, lines 55-68).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to prepare a film or tape comprising an active agent in a matrix of polymers and to place that tape or film in a capsule for oral administration.

One of ordinary skill in the art would have been motivated to do this to retain a dosage form in the stomach fro an extended period of time thereby improving bioavailability of the drug (Caldwell, Col. 3, lines 3-11).

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takayanagi et al. (US 4765983) in combination with Caldwell et al. (US 4767627) in

Application/Control Number: 09/831,901

Art Unit: 1615

further combination with Uyama et al. (US 6086869). The teachings of Takayanagi and Caldwell are discussed above. Neither Takayanagi not Caldwell teach the active agent to be interferon.

Uyama teaches that interferon can be orally administered in various forms. (Col. 6, Claim 7).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to place an active agent such as interferon in a film composition that is administered in capsule form.

One of ordinary skill in the art would have been motivated to do this to treat various diseases such as retinal edema.

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Joynes whose telephone number is (703) 308-8869. The examiner can normally be reached on Monday through Friday 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on (703) 308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3592 for regular communications and (703) 305-3592 for After Final communications.



Art Unit: 1615

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Robert M. Joynes Patent Examiner Art Unit 1615 September 28, 2002

> THURMAN K. PAGE SUPPERVISORY/FATENT EXAMINER VECHNOLOGY OF TER 1600